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The Files

11 September 1957

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T.O. 1, 2, 4 and 5

1. On 28 August the writer visited the [REDACTED] New Haven, Conn. to be introduced to the contract and to monitor progress on the four active tasks. [REDACTED] joined in a discussion with [REDACTED] Company Chief Engineer in charge of our projects.

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2. Task Order No. 1 is for the sub-miniature voice recorder [REDACTED] described a sample of each item and advised that this latest model was over 90% dependable in operation and with removal of the remaining deterrent to smooth tape transport, the specifications would be satisfied. A new delivery schedule was agreed upon which places the pre-production prototype delivery on November 1 and complete delivery on 15 December 1957.

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3. Task Order No. 2 for the development and fabrication of twelve breakdown recorders is nearing completion, with seven equipments delivered to date. The five remaining recorders are in the assembly stage.

4. Task Order No. 4 is for the development of a cylindrical recorder. The engineering model of this equipment was set up and operated for demonstration purposes. This model employed a record head which revolved around the outside surface of the tape traveling at  $7\frac{1}{2}$  inches per minute which winds around a stationary mandrel. This equipment is ready for design drafting and final packaging. The next model may incorporate an improvement such as sleeve bearings and belt drive for the record head, a sensing head for speed correction, and a teflon faced mandrel to facilitate smoother tape transport.

5. Task Order No. 5 is for the development and production of three high frequency recorders in the same configuration as the breakdown recorder of Task Order No. 2. This project is progressing satisfactorily but is presently held up pending receipt of special 8200 RPM motor. Tests have shown a signal to noise ratio of 35 to 38 db and with some preemphasis, relatively flat response from 4 to 24 kilocycles.

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